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Application Serial No. 10/798,001

Docket: CU-3633

Amendments to the Specification

Please replace paragraph [0005] in the specification at pages 1 and 2 at lines 18-28 and 1-8, respectively with the following amended paragraph:

The bio-microarray analysis method generally includes the processes of introducing a fluorescent molecule as a label into a sample and analyzing light emission from the fluorescent molecule, because such a process is appreciated as having a high sensitivity and a variety of available labels. Examples of the analytical apparatus according to this method include: a high accuracy type apparatus that uses the principle of confocal microscope and performs a spot-by-spot analysis on the bio-microarray; and a high throughput type apparatus that uses a charge-coupled device array or the like as a detector and analyzes a plurality of spots in a specific region at a time. In this method, for example, the data signal-to-noise ratio can be reduced by such a factor as a noise generated at the time of data amplification/conversion, the reflection of excitation light (incident light), ~~[[dusts]]~~ dust on the substrate, an unevenness in the surface treatment state of a glass substrate, and a background fluorescence. In particular, the reflection of excitation light is a remarkable cause of the reduction in accuracy that can come from the substrate.

Please replace paragraph [0034] in the specification at pages 8 and 9 at line 27 and 1-7, respectively, with the following amended paragraph:

In addition, any other functional layer may also be formed between the respective layers. For example, an adhesive layer for improving the adhesion properties may also be formed. The anti-reflection layer 2 and the light-absorbing layer 4 may each comprise a single layer or ~~plural~~ multiple layers. Specifically, the anti-reflection layer 2 comprising ~~plural~~ multiple layers is generally formed by stacking a low refractive index layer and a high refractive index layer alternately.

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Please replace paragraph [0056] in the specification at pages 14 at lines 14-18 with the following amended paragraph:

FIGS. 3A and 3B are schematic diagrams each showing an example of the anti-reflection layer 2 having the fine porous structure formed on the substrate 1. As shown in the drawings, the fine porous structure may be a porous layer or may be a laminate of ~~plural~~ multiple layers of fine particles with any of various shapes.